TO THE TRUSTEES OF SWAMP LAND DISTRICT NO. 348,

COUNTY OF SAN JOAQUIN, STATE OF CALIFORNIA.

Gentlemen:

In compliance with your instructions, we have made a careful examination of the lands in, and the levees around Swamp Land District No. 348, in San Joaquin County for the purpose of determining the work necessary to be done to protect such District from overflow, and of estimating the cost of such work, and report as follows:

District No. 348 is bounded on the North, East and West by the Mokelumne river. The southern boundary of the District runs in an easterly and southerly direction through Sections 4,5,6,9,10 and 11 in Township four (4) North, Range five (5) East, a part of which boundary is not adjacent to any levee. This tract of land is protected from overflow by levees along the Mokelumne river, Beaver slough, and the so called State Canal on the South line of Sections nine (9) and ten (10), a portion of which levees is outside of the District.

The maintenance of these levees outside the District, however, being necessary to the protection of the lands within the District from overflow. During the winter just past, the lands in the District were inundated by overflow from excessive water in the Mokelumne river, and numerous wide and deep breaks occurred in the Mokelumne river levee, all of which must be closed.

Accompanying this report is a profile along the top of the levee showing the breaks referred to.

There are twelve breaks from the Fogg tract to the lower end of the District at New Hope Landing in a distance of 3 1/2 miles; the aggregate length of the breaks being 3750 feet, or nearly 3/4 of one mile.

From the pumping house to New Hope Landing, a distance of 2 1/2 miles, the inside of the levee has been materially affected by wave wash, some places being washed beyond the center of the levee. The levee along the North side of the State Canal bordering the land of Reese Thompson on the South side of Sections nine (9) and ten (10) has been broken in several places in a distance of 1900 feet, all of which must be repaired.

The flood of the past winter has demonstrated that the outside levee from the Koontz tract at Station 283 on the accompanying profile to New Hope Landing, in addition to having the breaks closed, and the injuries by wave wash repaired, should also have increased height and width to reasonably protect the lands from overflow. The grade of which increased height is shown on the accompanying profile.

Below is an estimate of the cost of the work to be done. The price per cubic yard is based on dredger work. The River Levee to be built to grade as shown on profile, height on top to be six (6) feet with slopes of 3 to 1. The levee along the State Canal to have a top width of six (6) feet with side slopes of 2 to 1.

From the H. Koontz tract to New Hope Landing 252,790 cubic yards of embankment @ 8¢ ----------	$20,223.00
Along the State Canal Levee, 2,683 cubic yards of embankment @ 12¢ ----------------------	$ 322.00
Clearing and grubbing ----------------------	$ 500.00
Total -------	$21,045.00

G. A. Atherton
J A Graham

Engineers of said District No. 348.

The foregoing estimates which are meant to accompany the plans and profiles drawn and prepared for assessment No. 8 of Reclamation District No. 348, are hereby approved and adopted this 30th day of July, 1904 by order of the Board of Trustees of Reclamation District No. 348.

Arthur Thornton
J H Sargent
E H Barber

} Constituting the Board of Trustees of Reclamation District No. 348.

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